K-BUS Power Supply
User manual-Ver. 1

KP/D30.640.1

Contents

1. Introduction 3
2. Technical Parameter 3
3. Dimension and Connection Diagram 4
4. Normal Working Test 5

1. Introduction

EIB/KNX power supply produces and monitors EIB / KNX system voltage. The bus line is decoupled from the power supply with the integrated choke.

The power supply is connected to the bus line with a bus connection terminal. A reset is triggered by pressing the reset push button and lasts 22 seconds (regardless of the duration of the push button action).The bus line disconnected from the power supply and the devices connected to this bus line are returned to their initial state. If the line should be disconnected for a longer period, the bus connection terminal must be removed from power supply.

A 30V DC auxiliary voltage is made available via an additional connection terminal. This voltage can be used to supply a further bus line (in connection with a separate choke).

2. Technical Parameter

Power supply: Input voltage: 95V ~255 Vac，47~63Hz

Power loss: <6 W

Efficiency: 75%

Output: EIB/KNX output (DPSU): 1 line with integrated choke

EIB/KNX nominal voltage: 30 V DC +1/–2 V, SELV

Auxiliary voltage output: 1 (without choke)

Auxiliary voltage: 30 V DC +1/–1 V, SELV

EIB/KNX nominal current:

(Total of EIB/KNX and auxiliary voltage output) 640 mA, short-circuit-proof

Sustained short-circuit current: < 1.3 A

Mains failure back-up time: >200ms

Operating/Display:

Green LED “ON”: output voltage is OK;

Red LED “$I>I_{max}$”: overload or short circuit

Reset push button: reset at the EIB / KNX output (starts when the push button is pressed and lasts 22 seconds);

Red LED: Reset at the EIB/KNX output.

Connection: power supply: 3-srew terminals

Cable cross-section: single-core 0.2—4.0mm^2

Multi-core 0.2—2.5mm^2

EIB/KNX output: Bus connection terminal (black/red)
Auxiliary voltage output: connection terminal (yellow/grey)

IP Grade: IP 00, EN 60529

Ambient temperature range:

Operation: – 5 °C ~ + 45 °C

Storage: – 25 °C ~ + 55 °C

Transport: – 25 °C ~ + 70 °C

Housing & Color: plastic, white

Mounting: On 35mm mounting rail

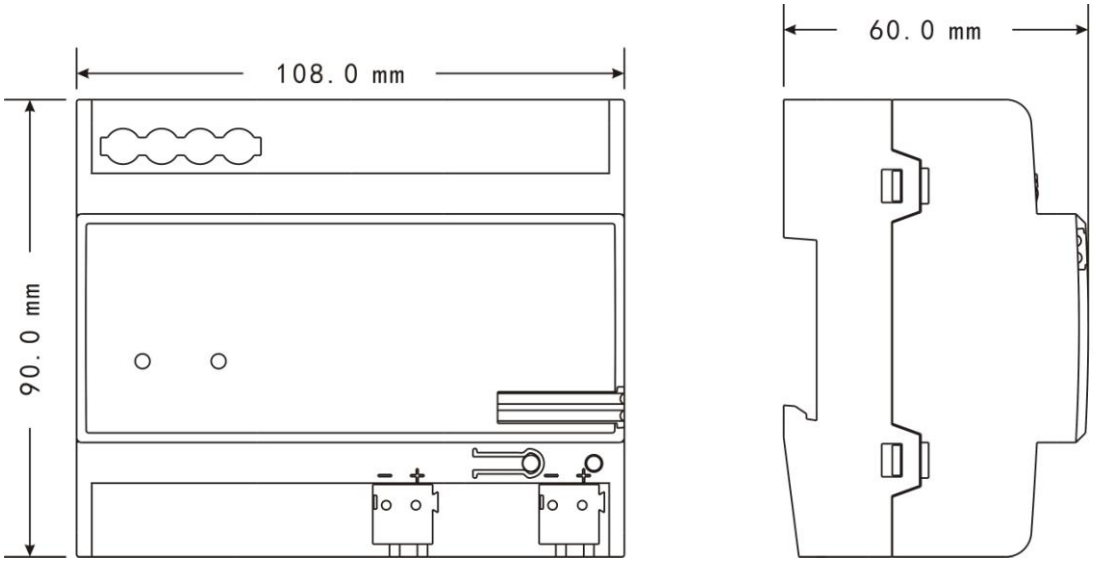
Dimension: 90×108×70.56mm（H×W×D）

Weight: 0.2kg

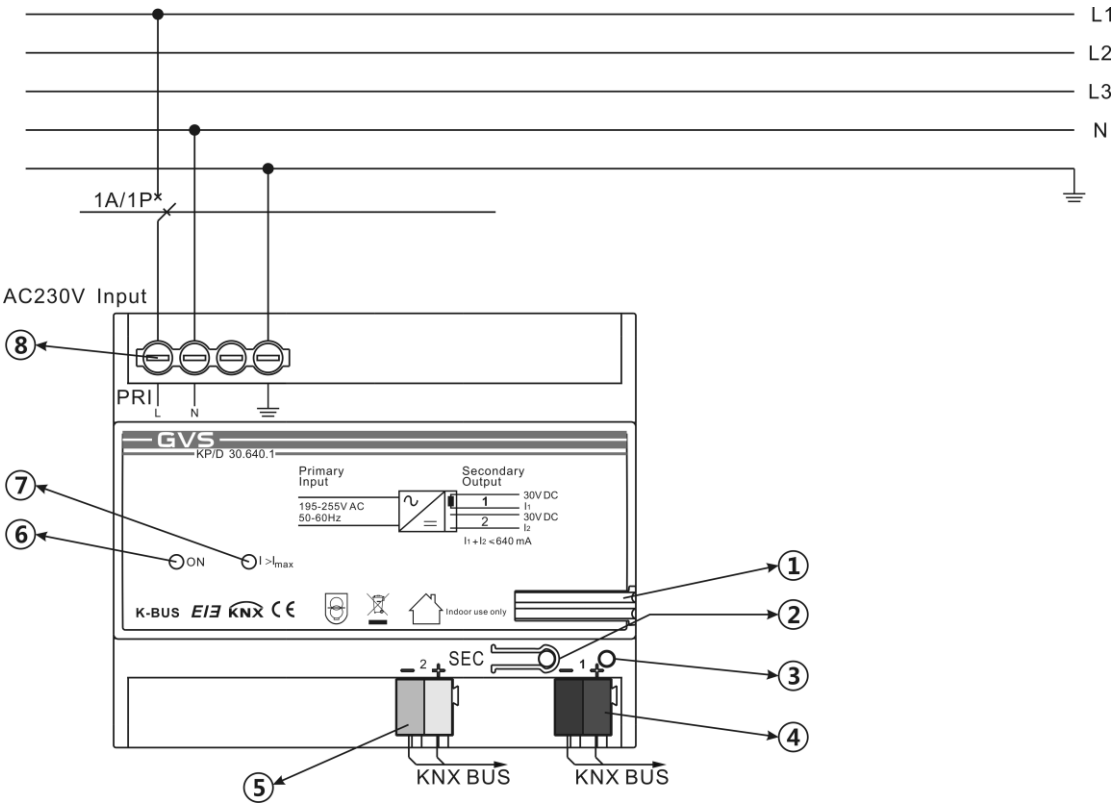
CE norm: In accordance with the EMC guideline and the low voltage guideline

3. Dimension and Connection Diagram

◆ **Dimension drawing:**



◆ **Connection Diagram:**



1. Label carrier **5.Connection terminal (auxiliary voltage output)**

2. Reset push button **6.Green LED（output voltage is ok）**

3.Red LED (Reset) **7.Red LED（overload/ short circuit）**

4. Bus connection terminal (EIB/KNX output) **8.Mains supply**

4. Normal Working Test

Switch on the mains voltage once the device has been correctly installed, the green LED “ON”, all other LEDs are switched off, the device is functioning correctly.